

# -Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

VOL. 20 - NO. 32

OAK RIDGE, TENNESSEE

Wednesday, August 10, 1966

## Mabel Tyer, Industrial Relations, Gets Certified Professional Secretary's Rating

Active NSA President Is Among Four CPS's In Area To Gain Professional Rating In 1966

seems only natural that Mabel Tyer should be Y-12's first Certified Professional Secretary! Her interests in the CPS program and the National Secretaries Association (International) fit her well into this select grouping.

Mabel, secretary to H. G. P. Snyder, Superintendent of Y-12's Industrial Relations, is serving her second term as president of the Oak Ridge Chapter of the National Secretaries Association. Prior to becoming president, she was a vice president for two years, and was recording secretary prior to that. She has been active in promoting Bosses' Night, Secretaries Week, and the seminar that goes along with NSA activities, while promoting good relations between NSA and the Oak Ridge High School Chapter of the Future Secretaries Association. The Oak Ridge Chapter of NSA has as one of its major projects the awarding of a scholarship each year to a deserving FSA student.

There are 24 CPS's in Oak Ridge . . . with the addition of four this year. UNION CARBIDE CORPORATION HAS MORE CERTIFIED PROFESSIONAL SECRETARIES THAN ANY OTHER MAJOR UNITED STATES COMPANY!

The State of Tennessee boasts 124 secretaries who have passed the strict six-section examination. The two-day certifying examination consists of tests in the following fields: Personal Adjustment and Human Relations (Problems requiring the exercise of judgment by the secretary in dealing with actual office situations involving superiors, colleagues and subordinates); Business Law (Knowledge of the principles of law involved in the secretary's daily work including contracts and bailments, the law of agency and sales, insurance, negotiable instruments, and real property); Business Administration (Fundamental economic concepts found



Mabel E. Tyer

in the secretary's day-to-day contacts with prices, taxes, labor, social responsibilities of business: government regulations of business; sources of economic data); Secretarial Accounting (Classification of accounts; interpretation of accounting data and of financial records as related to top-level secretarial work, employer's personal record keeping, payroll, petty cash, income tax reports, budgets and notes); Secretarial Skills (A series of items, including transcription of verbatim and office-type dictation, composition, and typing of common business papers; the detection and corrections of errors involving capitalization, grammar, punctuation, spelling and the expression of numbers); and Secretarial Procedures (Knowledge of modern methods of handling mail, filing, travel and itineraries, and communications media; the selection and procurement of supplies and office equipment; duplicating processes; use of the library and standard references). A candidate must qualify in all six categories before certification is granted.

Anyone Can Be Tested

Although the Institute for Certi-Continued on Page 4



BUSY ON THE PHONE, Mabel Tyer hardly notices the Congratulatory Cake co-workers slipped on her desk last week. The cake was decorated "Congratulations, Mabel, CPS!"

### **Linde Sets** Chicago Area **Expansion**

Union Carbide Corporation recently announced that its Linde Division is expanding in the greater Chicago area. An additional 1200 ton-per-day air separation units will be built to form part of the nation's largest multiplant, multipipeline industrial gas supply complex. Citing the steel industry's steadily growing requirement for - and dependence upon - reliable sources of oxygen, Birny Mason Jr., chairman of the board of Union Carbide, pointed out that the corporation will have invested about \$50 million in a five-year period in air separation facilities in this area.

Union Carbide is constructing this oxygen supply complex in the Chicago-Calumet industrial belt primarily to supply high-purity oxygen to its steelmaking customers. Part of this complex was started up in 1965 when Linde brought on-stream its Lakeside plant at Gary, Indiana, which produces 2400 tons per day of oxygen and a like amount of nitrogen from two 1200 ton-per-

Boosts Chicago Capacity

One of the three new 1200 tonper-day oxygen units will be built at the Lakeside facility. Scheduled for completion by October, 1967, this will increase Lakeside's oxygen capacity to 3600 tons per day. The other two new oxygen units will be built at another location within the great Chicago steelmaking center. This new plant will be tied in by pipeline with the Lakeside plant and is scheduled for completion in the 1968-69 period. These units will boost the capacity of Union Caribde's Chicago-Calumet oxygen pipeline distribution network to more than 6000 tons per day to meet foreseeable needs of steelmakers in the area, to be able to provide back-up essential for dependable, uninterrupted delivery of product, and to provide sufficient oxygen for unforeseen requirements. Linde's large air separation facility at nearby East Chicago, Indiana, is interconnected with the pipeline complex.

"The rapid development of basic oxygen steelmaking practices has pushed average oxygen consumption to more than 1100 cubic feet per ton of steel produced," reports Linde President Robert F. Flood. "As a result, steel mills requiring well over 1000 tons of oxygen are becoming commonplace. This places an add-Continued on Page

#### Dan Hale To Speak At Physics Seminar

Dan P. Hale, Advanced Research Laboratory, George C. Marshall Space Center, Huntsville, Alabama, will be guest speaker at this week's Physics Division Seminar. His subject will be "Ranger and Mariner Scientific Findings." (Hale is wellknown by many area residents as a rugged member of the Smoky Mountains Hiking Club.)

The seminar is set for Friday, East Auditorium, Building 4500,



THE FIRST RADIOISOTOPE SHIPMENT from Oak Ridge National Laboratory was made 20 years ago last week. The millicurie of carbon-14 here is presented by Dr. E .P. Wigner, then Research Director of ORNL, to Dr. E. V. Cowdry of the Barnard Free Skin and Cancer Hospital at St. Louis, Missouri. Looking on, at left, is Prescott Sandidge and Col. E. E. Kirkpatrick, then Commander of Clinton Engineering Works.

#### First Isotope Shipment Left ORNL 20 Years Ago Last Week

Twenty years ago last week ment may be compared to the (August 2) a ceremony was held total amount sold at ORNL durat the Graphite Reactor, at Oak Ridge National Laboratory, marking the first non-security shipment of radioisotopes.

The passage of time has seen the outmoded reactor shut down because of the development of more powerful and sophisticated tools for nuclear research. The intervening years also have seen a blossoming in the production and use of the radioactive forms of elements known as radioiso-

The use of radioisotopes has grown at such a pace that probably only a few of the more visionary of those present at that afternoon ceremony 20 years ago would have believed the giant strides that have been made in the years since. The atom through radioisotopes has taken its place in virtually all of man's activities today — usually unknowingly to the average citizen who may be benefitting most. The tiny, unseen atom has found its place largely in the fields of industry, agriculture, medicine and research, and too in such diverse activities as crime detection and the production of electricity for powering instruments in space, the far North Pole, and at the bottom of the sea. Many of those involved in the work today think the potential has only been scratched.

Pea-Sized Unit

The ceremony 20 years ago centered about the shipment of a pea - sized unit of carbon-14, weighing about one ten-thousandths of an ounce, to the Barnard Cancer Hospital, St. Louis, Missouri. The shipment involved one millicure of tradioactivity.

Despite its small size, the unit of carbon-14 represented 100 to 1,000 times as much of the isotope as had previously been made available for research in any August 12, at 3:15 p.m. in the single order produced through cyclotrons.

The first one-millicurie ship-

total amount sold at ORNL during the fiscal year which just closed June 30-more than 1,800,-000,000 millicuries. ORNL is only one producer and distributor of radioisotopes for, increasingly, the job is being taken over by industry as the Atomic Energy Commission attempts to work its way out of the business.

E. E. Fowler, Director of the AEC's Division of Isotopes Development, said "without qualification, the prospects for an increased growth rate in the application of isotopes and radiation have never been brighter in the United States than they are today."

#### **Enormous Contributions**

"It is difficult to assess the contributions that radioisotopes have made in the past 20 years to the medical field toward alleviation of human suffering," Fowler continued. "But in the medical field, as well as the fields of agriculture and research, we know that the contributions have been enormous.'

He said the contributions in the industrial field are more easily measured and cited a recent survey completed for the Commission in this field. "American industry has invested some \$100 million in radioisotope gauging systems, and this investment is Continued on Page 4

#### SAFETY SCOREBOARD

The Y-12 Plant Has Operated 65 Days Or 1,748,000 Man-Hours Through August 7 Without A Disabling Injury

> Phone 3-7755 (Unofficial Estimate) For Daily Report On Accident-Free Hours

Published Weekly For The Y-12 Employees Of UNION CARBIDE CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG ..



Appalachian Industrial Editors

American Association Industrial Editors

OFFICE Post Office Box Y Oak Ridge, Tenn. 37830 Bldg. 9704-2 Room 137 Telephone 3-7100

#### Saturday Rites For Ruby Lucas

The plant was saddened last week by the death of Mrs. Ruby Lucas, a clerk in Plant Records. She died in Oak Ridge Wednesday, August 3. She had been with Union Carbide since 1947 . . coming to Y-12 nine years ago from the Purchasing Department. A native of South Carolina,

Mrs. Lucas was born in Ches-

> 173 Hamilton Circle.

Surviving are her husband, Mr. Lewis Lucas; two sons, Gary C. Munn, Winston Salem, North Carolina;

Garvin Munn, at home; her mother, Mrs. R. H. Stephenson, Chester; brothers, Esten P. Stephenson, Chester, South Carolina; and Garvin Stephenson, Clinton; one sister, Mrs. J. H. Lee, Charleston, South Carolina; and three grandchildren

Ruby Lucas

Funeral services were held Saturday at 3 p.m. August 6, at Martin Funeral Home, Oak Ridge. Services were conducted by the Reverend Charles W. Dye, minister at Trinity Methodist Church. Interment followed in the Oak Ridge Memorial Gardens.

Sincere sympathy is extended the family.

#### NECESSITY OF WORK

To do an urgent and important work, there are two things necessary - a definite plan and not quite enough time!



MELISSA WOODBY, the joy of grand-pop H. Woodby is the daughter of Mr. and Mrs. Dana Woodby. Five-months-old Missy already makes a charming pinup. The proud grandfather is in Y-12's Process Maintenance.

#### The Bulletin European Summer For Debbie Ogden



Debbie Ogden

Arthur Ogden, well-known Y-12 retiree, has an exciting summer . . . but not nearly as big a one as granddaughter Debbie Ogden is enjoying. Debbie, who will be a senior at Garden Grove High School this fall, is spending the summer in The Netherlands.

Chosen as a candidate on the Youth for Understanding Program Miss Ogden left June 20 for The Lucas Holland and expects to return to home was at this country later this month. She will spend the entire two months of summer in a Dutch

> Debbie is the daughter of Mr. and Mrs. Arthur Ogden Jr., Garden Grove, California. She plans to become a music teacher on the elementary level after finishing college. During high school she has been Girls' League president and drill team recall and historian and was junior Homecoming Princess last year in school. Debbie is an active member of the Golden Fleece and the ICC.

> "I feel the program is excellent and well organized, and it will help strengthen foreign relationships by proving that teenagers are the same the world over, Debbie stated before she left

> Language should be no barrier for her as she took a few Dutch lessons from a friend.

> Youth for Understanding is sponsored partly by the Methodist Church and has headquarin Ann Arbor, Michigan. Over 700 students participated in Youth for Understanding exchanges last year.

Ogden Sr., who retired from Buildings, Grounds and Maintenance Shops in 1963, still resides in Oak Ridge, where he is active in civil defense and rescue squad work. He says he can still do 30 push-ups before breakfast!



Kide wanted from inskip via Clinton Highway and Edgemore Road, to West Portal, straight day. Frank Williams, plant phone 3-7529, home phone Knoxville 689-2519.

Will join car pool from Crestwood Hills section, Knoxville, to North or Central Portal, straight are bicycle and tricycle parades day. Bob Wesley, plant phone 3-

#### SIGN OF AGE

You're getting on in years instead of setting a bad example. day. They'll be glad to have you!

## 'Cruising Tennessee Like Reading Good Book' Sals Gus Angele In Description Of Giant River

Gus Angele, down in Engineering Mechanics, has an interesting article in the May issue of The Ensign. The Ensign is the official publication of the United States Power Squadrons. Long interested in water safety and boating, Angele entitles his treatise "Cruising the Tennessee River System." The article is a combination of lectures Angele has given before various Squadrons in this area. Before coming to Y-12, Gus was associated with the Tennessee Valley Authority, which gives his treatment of the TVA Lake systems more authen-

Following are brief excerpts from the interesting study.

"For 250 years, the incorrigible Tennessee River resisted the efforts of man to tame her and put her to work. With barely more than a few navigable miles between rapids, what river traffic there was had either to portage over shoals or to shuttle back and forth in the limited stretches of the river then usable.

'Tamed and Harnessed'

"But today, the Tennessee has been tamed and settled into harness. Her 652 miles of main river - now navigable by means of a channel with a minimum depth of nine feet - and her 275 miles of side channels, with a shoreline of 10,000 miles, have been linked with the great network of American waterways.

"A boatman can cruise through

#### Karns Fair Is Set For Saturday

There's a score of Y-12 folks involved in the Karns Community Fair coming up this weekend!

The annual affair is set for Saturday, August 13, at the Karns High School . . . sponsored by the Karns Community Club. From 8 until 11:30 a.m. the exhibits will be installed in the gymnasium.

The all-day events begin at 10 a.m. The Midway features a holein-one golf contest, basketball goal shooting, horseshoe pitching, ball - in - basket, ball-in-holes on board, spin board, weight guessing, fortune telling, archery, ballat-bottles, rings-at-pins, penniesin-plate, guess cake, bean guessing, etc. There will be fun booths and food and drink concessions.

C. C. Hayes, Central Procurement, is chairman of the event. K. A. McTeer is on the coordinating committee; Mr. and Mrs. Mc-Teer are on the Queen contest committee; Mrs. Frank McDonald Jr. is one of the judges for the Fair Queen; Clifton Jeffers is working with construction and grounds; Gerald Insell, John Herndon and Frank McDonald are on the Midway committee; Mr. and Mrs. Larry Hawk are on the Fun Booth planning group; Mr. and Mrs. C. H. Noe Sr., Ed Gammon, and Mr. and Mrs Dana Arnold are on the food and drink concession committee; and Mary

There are prizes for field crops, vegetables, canned goods, bread, pastries and candies, tailoring and needlework articles, arts and crafts, flowers, livestock products, honey and a big pet show. There and skills contests which include a sack race, egg toss, cracker and whistle, baton twirling and a field meeting.

So if it's a Community Fair you when you start giving good advice like come on out to Karns Satur-



Gus Angele

out the eastern half of the United States - by using the Tennessee, Ohio, and Illinois River, the Great Lakes, the Hudson River, the Intracoastal Waterway along the Atlantic Coast, across Florida by way of the St. Lucie Canal, Lake Okeechobee, and the west coast of Florida to the Gulf Coast Inland Waterway, to New Orleans, up the Mississippi River, and back to the mouth of the Tennessee River at Paducah, Ken-

#### Indians Traveled River

"The first travelers to use the Tennessee were the Cherokee Indians, who understood its importance. They felled great trees and built large canoes, each capable of carrying a complement of 20 men. Fur traders soon realized that such canoes could take more bundles of furs farther and faster than porters could shoulder them overland. Pioneers built covered flatboats and moved their families, livestock, and household goods along the Tennessee to new Western frontiers. During the Civil War, flotillas of small riverboats carried Southern and Northern armies to battle. And postwar steamboats, in their golden era, contended with the alternating floor and low water.

"The size of the riverboats grew with the demands of commerce, yet the rocky shoals and swift currents of the Tennessee remained stubborn barriers, and the vast region between the mountains and the Mississippi continued isolated from goods and commerce.

"If the Tennessee were ever to become navigable for its entire length, it was clear that dams must be constructed. The water level of the river would have to be raised so that the keels of the largest riverboats could pass safely over rocks and rapids."

Wilson Dam Built

Angele then relates the con-Hales Bar . . . and the creation of with the Adult Education pro-Wilson Dam in 1914 by the U.S. was established, enabling the de- and there is no charge.

velopment of all resources of the stream, and specifically providing navigation.

'The marked channels by no means exhaust the opportunities for cruising by recreational craft in the embayments and reservoirs," Angele observes. "The Angele observes. recreational boatman now has some 1,000 miles of quiet waters to cruise and 10,000 miles of shoreline to explore whenever he desires - a distance equal to the entire Atlantic Coast shoreline of the United States. He can go from Knoxville, to Chicago, Minne-apolis, Pittsburgh and New Orleans without ever removing his boat from the water. Or, if he has the time and the inclination, he can make a circumnavigational tour of the eastern half of the United States.

#### Dam Locks Described

Angele then describes the locks on the Tennessee River . . . from Pickwick Landing in the southwestern part of the state to Fort Loudoun, the last dam on the

"All locks are in service 24 hours a day, seven days a week, with the exception of the lock at Melton Hill Dam (on the Clinch . next door to Oak Ridge), which is operated between 0600 and 2200. All locks are operated without charge by the Corps of Engineers.'

Describing "locking through" on the various dams, Gus points out the priority given to crafts. 1. U.S. Military Craft. 2. Boats carrying the U.S. mail. 3. Commercial passenger craft. 4. Commercial tows. 5. Commercial fishing boats. 6. Pleasure boats.

"However, it is not always necessary for the pleasure boatman to wait to lock through. There are times when he may lock through with other craft, but never with a commercial carrier hauling explosives or combustible fuels."

In a comprehensive, thorough manner, Gus describes the safety angles of reading the river . . . watching for shoals, stumps, sandbards and other hazards encountered on the stream.

"Cruising the Tennessee River system is always like reading a good book you have never read before," Angele concludes, "Every time you maneuver your boat around a bend you turn a page where something new and fascinating is revealed. There are many lessons to be learned in the reading, from which you can derive much useful boating knowledge and great enjoyment.

Meanwhile, Gus announces that the Knoxville and Oak Ridge Power Squadrons both will open their fall courses in safe boating. The Oak Ridge classes will begin struction of Muscle Shoals at Wednesday, September 14, along gram. The Knoxville classes open Army Corps of Engineers. In 1933, about that time, also. The PS the Tennessee Valley Authority courses are open to the public



#### Shifters Usher Out July Properly With Successful Watermelon Festival

July 31) saw a mass of Y-12ers Carbide Recreation Area. Spon- 12 . . . for repairs . . . black-sored by E. F. G. H and J shifts topping, that is.) the to-do attracted a very large crowd. They came from everywhere, out of the water, from the trees and most everywhere else that one could imagine. One definite fact emerged . . . Y-12ers do like watermelon.

Exceptionally good was the verdict, too, on the juicy melons. The local market had to scrounge around Saturday to get enough to go 'round. The first 50 went like hot cakes at a lumber camp so back to the market went the little pig . . . and another 20 made it just right. The kids had the better half of the day, outnumbering the old folks . . . but that's the way the shifters like it.

The group left the park all spick and span, too, was another good word from the later afternoon outing.

Winners of awards were Bob Burdette, badminton set; J. L. Minton, golf balls; W. A. Rollen 6-1. Jr., table tennis set; R. M. Kemper Jr., croquet set; J. P. Young, Skotch Kooler; Hence Mitchell, thermos jug; J. E. Somers, table tennis set; and P. D. Wirey,

There were 91 employees registered for the festival and, of course, brought all the kids . for a total of 285 people. The group is hoping for a repeat performance come next summer.

Some very fine compliments were passed around by folks who were visiting the Park for the first time. They were pleasantly surprised to find the beauty and convenience on the finger of land jutting into Melton Hill (Park enthusiasts are reminded again that the road is

#### Harness-Durham Hold H'Shoe Lead

The Harness-Durham pair continued to dominate the Horseshoe League, by virtue of a clean sweep over the Hutto-Tillery pair last week.

Other tilts saw Leonard-Gray take seven from Helms-Wagner, and Raper-Long win five from Wyatt-Lucke.

League standings	follow:
Team	W
Harness-Durham	46
Leonard-Gray	41
Barger-Luckett	34
Helms-Wagner	34
Zupan-Kendig	23
Wyatt-Lucke	23
Raper-Long	23
Hutto-Tillery	5
Gladson-Gallman	5

The last day of July (Sunday, | closed this week . . . today. Wednesday, August 10 . . . Thursday, enjoy watermelon at the Union August 11, and Friday, August

> L. C. Watson came with 15 guests . . . the Mike Getzi's with 10 and F. C. Stoetzel family came with nine guests. T. A. Hart and D. C. Farrell tied with eight guests each.

Like it was said before, Y-12ers prove one thing . . . they sure do like watermelons!

#### Campbell Takes Tennis Crown!

Sam Campbell was crowned the official champion of the first half of the Tennis League last week . . . as action wound up in the eight-man race.

In last week's action Ed Del-Grande downed James White 6-2, 6-2 . . . while Bill Hackett took two sets from Campbell King 6-1, 6-0 after dropping the first match

King defeated White 6-3, 6-3. First Half Standings:

Player	550
Sam Campbe	11
Bill Hackett	
Ed DelGrande	e
Don Legacy	
Campbell Kir	ng
Max Scott	
James Froula	1
James White	

#### Roane County Men Seeking Bowlers

Roane County bowlers are being paged for league action this Fall and Winter. All former teams and any new teams or bowlers in the Harriman, Kingston or Rockwood area that wish to bowl in the Kingston Lab League should call Hobey Thomas, extension 3-6544.

The league's action will take place on Wednesdays, at 6 p.m. at the Tri-Cities Lanes in Midtown. Action will begin Wednesday, September 7.

There will be a meeting of the nucleus of the league Wednesday, August 17 at the Midtown Alleys. Any interested bowler should attend or get in touch with Thomas.

#### JUST PLAIN LUCK

Two college students were sitting on a soft discussing intelluctual subjects . . . like mental telepathy, ESP, etc. "
telepathy, ESP, etc. "
call it mental telepath
asked, "if I were thir
the same thing you ar
"No," the boy replie
that just plain luck!" telepathy, ESP, etc. "Would you call it mental telepathy," the girl asked, "if I were thinking about the same thing you are?'

"No," the boy replied, "I'd call

#### Tee-Off Time Application For Southwest Point (Kingston) Tourney

Saturday, August 27 Foursome

	, Leader
	, Leader
Leader's office phone	
Home phone	5
Tee-Off Time Preferred	

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, August 24. Tee-off times will be drawn the next day, Thursday, August 25, at 8:30 a.m.



Y-12's MIGHTY BRAVES, who stand the best chance of topping out in the Softball League of any plant team in running, are seen in full gear before a recent game. They are from left, Jim Milligan, John Evans, Bob Culton, John Chapman, Bill Butturini, Bob Hopkins, Jim Shoemaker, Jerry Davis, Ray Riggs, Assistant Manager Loyd Wyatt and Jerry Babb. Manager Rick Hull was not present for the picture-shooting.

#### Recreation



Monday, August 15

SOFTBALL LEAGUE, beginning 6 p.m. Pinewood Park. Health Physics vs. Clowns; Eagles vs. Naughts; Sluggers vs. Big Shops.

TENNIS LEAGUE: To be arranged by individuals by sched-

Tuesday, August 16 SOFTBALL LEAGUE, beginning 6 p.m. Pinewood Park. Mets vs. Fireguards; Red Devils vs. Falcons; Isotopes-Reac-

tor vs. Peanuts.
PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gymnasium.

Thursday, August 18

SOFTBALL LEAGUE, begin-6 p.m. Pinewood Park. K-25 Sports vs. Bat Boys; Ecobums vs. X-10 Mets; Braves vs.

PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gymnasium.

HORSESHOE LEAGUE, 7 p.m. City Courts, Jackson Square.

#### THE SEA AROUND US

The world's fisheries have experienced a marked growth in recent years. This development gains importance in view of the rising concern over food supplies in a global population boom

# WHAT SIGN?

SIGNBLIND SLUG EXPERT AT READING FINE PRINT ON A CONTRACT BUT CAN'T SEE FOOT-HIGH LETTERS ON A TRAFFIC SIGN...

#### Softball Squeezes Full Schedule Into First Three Days Last Week

got in three fast licks in the Soft- losing BB team. ball League, as teams played Monday, Tuesday and Wednesday (to game of the week from the Falallow players to vote on August

Monday's firing squad started as the K-25 Mets (gloating over The Eagles tallied 19 hits to the the victory of the week before) Falcons' nine. tore into Y-12's Big Shops, demolishing them 10 to 2. Wes Peters, Steve Cates, John Keith, George Plunk and Bill Martin all homered for the winning Mets . while Ben Alexander poled the lone homer of the game for the losers.

Leaders Win Big!

In the second foray of Monday, the Isotopes-Reactor team slaughtered the Sluggers 29 to 7. Herman Thomas and Butch Armistead poled two full-circuit hits, while Don Tidwell collected one for the winning IR combo. Leroy Hardin and Curtis Parker poled four-ORSA Team

league standings by taking a 14 to 6 victory from the Peanuts . . . Frank O'Donnel, three for three, collected a homer and a triple for the winning squad. Homer Tucker tucked one away for the losers.

Tuesday saw the Y-12 Braves keep strong standings in the league by neutralizing the Naughts 18 to 8. Charlie Holland was big hero of the afternoon with two four-baggers. Al Longest hit the longest ball for the losers with the only homer in that side of the ticket.

X-10 Mets Barely!

The X-10 Mets won a shavingclose victory from the Bio bunch 11 to 10 . . . outhitting the 9207 men 14 to 12. Sam Hurt, up three for three, poled the only homer of the game . . . as inning number two was the big highlight for the Mets as they ran in seven runs that inning.

The Red Devils demoted the K-25 Sports in final action Tuesday 31 to 11. Charlie Dun, Jim Carter, Tom Grizzard (with two) all homered for the winning RD team. Bob Seyfried clouted two full-circuit ones for the losing Sports . . . Jerry Howard one.

Fireguards Lose Again

The Clowns in the moved-up schedule Wednesday clouted the Y-12 Fireguards 18 to 8. John LIKE SCISSORS, ALREADY Marriage has been describ Csurney, Larry Boulware and Steve Scott were big men with long homers for the winners.

Bat Boys in game number two Wednesday 18 to 12. Don Taylor NATIONAL SAFETY COUNCIL and Bob McRae collected four-

The first three days of August | baggers at the expense of the

Y-12's Eagles won the final cons 19 to 3 . . . as Hugh Richards and Frank Koon clouted long homers for the winning team.

League standings follow.

0	
Team y	V
Isotopes-Reactor, ORNL	12
	11
	10
K-25 Mets	9
Health Physics, ORNL	9
Bat Boys, Y-12	8
Eagles, Y-12	8
K-25 Sports	6
Bio, ORNL	6
Clowns, ORNL	6
X-10 Mets	6
Ecobums, ORNL	5
Naughts, ORNL	4
Falcons, Y-12	4
Sluggers, ORNL	4
Peanuts, ORNL	2
Big Shops, Y-12	ī
Fireguards, Y-12	0

# baggers for the losing Sluggers. Hosts Rifle Meet

The Oak Ridge Sportsman's Association was host for the Tennessee State High Power Rifle Championship the last weekend in July.

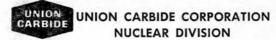
G. A. Reimann, ORNL, was crowned state champion posting a 491 of a possible 500 points to win the tournament. He won the 200-yard standing match and the sitting rapid fire match. In the latter, Reimann posted a new range record for civilians with a 100-10v total. In the 300-yard rapid and the two long range matches he was first master.

The team matches were held on Sunday, July 31, with the ORSA team winning first master honors with a fine 972-79v score just three points under the U.S. Marine Corps winning team. Team members were G. A. Reimann and A. S. Quist, ORNL . . . Jack Huff and E. A. (Wrong Way) Scott, both of Y-12. The team was coached by ORNLite A. A. Abbatiello.

Reimann also won the 1,000yard match with a 100-14v score This was fired in a tricky wind condition that had some of the best losing points. He was the only one to make 100 out of 100 for the day.

Marriage has been described like a pair of shears . . . so joined that they can't be separated, often moving in opposite di-Health Physics flattened the rections, yet punishing anything coming between.

Can the classified talk!

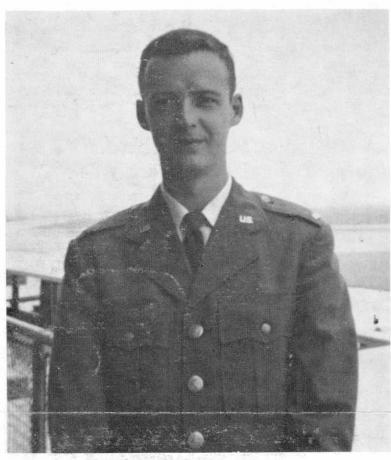


RETURN POSTAGE GUARANTEED

Post Office Box Y Oak Ridge, Tennessee-37830

BULK RATE **U.S. Postage** PAID Oak Ridge, Tenn.

Permit No. 71



First Lieutenant Ronald Marlar

#### Marlar Son Awarded Bronze Star For Valor In Viet Nam Action

won for First Lieutenant Ronald operation took about five minutes. Marlar the Bronze Star for Valor. (Ron is the son of R. G. Marlar, ORNL Chemical Services; and Mrs. Mattie Marlar, Production Assay.)

Lt. Marlar for "outstanding achievement in military combat services," took the coveted medal before leaving the Southeast Asian country . . . after spending a year there, as director of information for the Seventh Air Force.

Marlar is a journalism graduate from the University of Tennessee, where he was an outstanding cadet in the ROTC. A career officer in the Air Force Marlar was home recently visiting his family on Ball Camp Road, Knoxville. He leaves shortly for the Tachikawa Air Base, outside Tokyo. His family will be able to join him there, and he expects to stay in Japan about ing operations.' three years. Lt. Marlar is married Rubber, Tobacco Industries to the former Sharron Johnson, and they have a son, Robert Greg ory.

The Bronze Star came from Marlar's reaction to a Viet Cong rubber produced currently for cessing, in electric power generattack on the air base where he was stationed. One of the planes on the field was burning . . and it was loaded with flares If the craft had exploded, several other planes would have been demolished. At the risk of his own life, Lt. Marlar and several South Vietnamese soldiers unloaded the flares from the burning plane.

Heroic action in Viet Nam has action, Marlar said the entire At the time, several U.S. planes were lost in the raid.

The tape was presented to the parents by the Air Force and a local radio station.

Marlar, in his position as P.I. officer, has met many of the correspondents from newspapers, magazines and television networks in Viet Nam. He has great admiration for these men who are working under combat conditions to get the news. He relates he has met some "name" newscasters in this field of action, too.

The Marlars took vacations recently to enjoy their son's visit

#### First Isotope

Continued from Page 1 saving industry many millions of dollars annually in manufactur-

"Examples of such users in the rubber and tobacco indusradioisotope gauges. Likewise, in manufactured using isotope outer space," Fowler said. gauges.'

With radioisotopes, as with all IMPORTANCE OF LIFE fields of endeavor, however, 'the past is but prelude.' The greatest save a cat before a Rembrandt. opportunities still lie before us. Life has more value than art .

In a taped description of the Even now we foresee multi-mil- Alberto Giacometti.

#### **Mabel Tyre**

Continued from Page 1 fying Secretaries is a department of the National Secretaries Association, a candidate need not be a member of NSA to take the examinations

Mabel's letter from the dean of the certifying institute read in part: "Congratulations! You have successfully completed all six parts of the Certified Professional Secretary examination. With the attainment of your Certified Professional Secretary rating, you have become a member of a select group of top-level secretaries. Your certification represents one of the highest honors available in the secretarial profession.

'Coveted Rating'

"You are one of the 260 secretaries certified this year. In the first 16 years of the CPS program, 3,590 secretaries have earned this coveted rating.

"Even though you have achieved your CPS rating, I hope that you will continue your professional development activities. Secretaryship as a profession is still in its infancy. Upon you and your fellow CPS's falls the responsibility of nuturing the CPS movement of insuring and aiding others to achieve this professional goal. Only through such efforts will we develop a profession in which we can all take pride.'

Mary Yaggi Qualifies Mary Yaggi (Jack's wife), in ORNL's Metals and Ceramics Division, has been notified also that she passed the CPS certification.

Yaggi is in Y-12's Metallurgical Development Department.

Created to "elevate the standards of the secretarial profession, the CPS program was initiated in 1951 to 281 candidates. A total of 62 secretaries were certified from that group.

The annual CPS examination is administered at test centers throughout the United States, Canada, and Puerto Rico on the first weekend in May. (Mabel took her examination in May of this year at the University of Tennessee.) A unique feature of the examination is the participation in its construction by CPS's. Those who have a part in preparing the examination are individuals with background and experience relatively the same as those who will later take the examination.

Schools Lend Hand

Various schools and colleges lend NSA assistance in administering the examinations.

Mabel is a native of Paducah, Kentucky. Besides her activities in NSA, she attends the United Church (Chapel on the Hill) in Oak Ridge, has been active with YWCA. She is an ardent sports fan . . . bowler, UT fan (until the Big Orange collides with Kentucky) . . . and a diedin-the-wool Yankee fan! Mabel is a graduate of the Draughon Business College, Paducah, and has attended classes extensively at the University of Tennessee.

Miss Tver will be awarded her Certified Professional Secretary certificate in banquet ceremonies in September.

Congratulations, Mabel!

tries," he stated. "It is estimated lions of curies of individual radiothat more than 95 per cent of the isotopes used in radiation proautomobile tires is measured by ators, and for space propulsion and direct heat applications. the tobacco industry nearly 80 These uses of radioisotopes will per cent of the cigarettes pro- span the extremes of our environduced in the United States are ment - from the ocean floor to

In a burning house I would



INDUSTRIAL RELATIONS recently ended a 'personal experience' contest where employees could submit accounts of how they have contributed to their own or their families safety. H. G. P. Snyder, left, presents Ed DelGrande the first prize of an electric ice-cream freezer. Campbell King, Wage Standards, took second prize . . . a hair-dryer. Congratulations.



Count the morning fogs in August to determine the snows of the coming winter, so goes the old wive's tale. Count the Y-12ers crossing important milestones with Union Carbide Corporation . . and congratulations to each! 20 YEARS

James L. Overton, General Machine Shop, August 12.

Willard G. Story, H-1 Foundry August 14.

15 YEARS

Howard Loveday, SS Warehousing and Shipping, August 10.

Donald J. Schafer, G-3 Process

ing, August 12.

William H. Sherrod, Process

Maintenance, August 13.
Robert S. Hopper, Buildings,

Grounds and Maintenance Shops, August 13.

Virginia G. Scarbrough, Medical Department, August 13. James F. Warner, Specifica-

tions and Systems, August 13. George S. Easley, Dispatching

Department, August 13. John B. Shepard, Casting Deartment, August 13.

Grady W. Chancey, Buildings, Grounds and Maintenance Shops, ugust 13.

Bobby E. Lunsford, Machine Maintenance, August 13.

Edward C. Hightower, General Machine Shops, August 13. Billy J. Littleton, H-1 Foundry August 14.

James A. Woods, Dispatching Department, August 15. Harry A. Tobe, Chemical Serv-

ices, August 15. George T. McMahon, Casting Department, August 16.

John H. Marquiss, Labor Relations, August 16.

10 YEARS Edgar S. Cochran. Maintenance, August 13.

Clara M. Smith, Physical Testing, August 13.

Robert R. Fowler, Facilities Engineering, August 15.

#### DIVIDEND DECLARED

The board of directors of Union tion payable September 1, to will be doubled when the third stockholders of record at the 1200 ton-per-day unit is completclose of business on August 5. ed next year.

## Linde Expansion Continued from Page 1 ed responsibility upon suppliers

to make substantial investment in primary production facilities and to offer the ability to back up the contract commitment."

Steel Requirement Grows

Flood pointed out that the greater Chicago - Calumet steel center provides a unique situation in terms of oxygen supply. "Because there are so many steel mills in this area and because their oxygen requirements are becoming so large, it makes more sense for us to build large centralproducing plants to supply customers by pipeline rather than to construct individual on-site plants at each customer's mill,'

"By being able to adopt this approach, we can handle large volumes of oxygen for several customers with more flexibility than otherwise. We selected the 1200 ton-per-day unit for this complex because of its excellent economics, and because the magnitude of the requirements still made it possible to insure continuity of supply for large and small customers alike.

"What we have in the Calumet area is an extension and improvement on a very large scale of the on-site plant concept introduced by oxygen suppliers about 15 years ago. It should be noted that on-site producing plants supplying a single customer will continue to be an important method of oxygen supply to most steel mills primarily because there are few industrial areas in the country able to support industrial gas complexes on this scale," Flood also noted.

Linde's plant at East Chicago, Indiana, is also installing 200 tons per day of additional liquid oxygen production for distribution by tank trucks and trailers and by railroad tank car. The new output will bring East Chicago's liquid producing capacity to more than 1000 tons per day. The East Chicago plant also supplies gaseous oxygen and nitrogen to the pipeline network. Customers currently being supplied from East Chicago and Lakeside include U.S. Steel, Inland Steel, Youngstown Sheet and Tube, and Universal Carbide Corporation has declared Atlas Cement. In addition to oxya quarterly dividend of fifty gen and nitrogen, the Lakeside cents per share on the outstand- plant currently produces 800,000 ing capital stock of the corpora- cubic feet of argon per day which